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References: 0 *Tables:* 5 *Figures:* 6
Category: Original Scientific Paper
Title: MULTIGRAM AS AN INSTRUMENT OF COLLECTING EMPIRICAL DATA FOR SCIENTIFIC REASONING WITH SCALING TECHNIQUE
Author(s): Slavo Kukić, Siniša Rudelj
Affiliation: Faculty of Economics, University of Mostar, Mostar, Bosnia and Herzegovina
Key words: multigram, scales, Likert scale
Abstract: In the paper autors are developing the multigram concept - the new complex instrument for collecting empirical data for scientific generalization. The essence of it is in advantages that it has in regard to existing type of scale. Advantages are: reduced size and scope of the test instrument, reduced resistance of subjects participation and reduced amount of time for processing average respondent. Multigram concept results in increased objectivity and increased heuristic of the instruments for empirical data collecting.

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Language –of text: Croat. *– of Summary:* Croat.,Engl.
References: 38 *Tables:* 7 *Figures:* 0
Category: Original Scientific Paper
Title: COMMUNICATION FACTORS OF CYCLING TRAFFIC IN ZAGREB AND ITS SURROUNDING
Author(s): Joško Sindik
Affiliation: Institute of Anthropology, Zagreb, Croatia
Key words: part of the city, social action, city administration, use of bicycles, traffic system, relief, security, Zagreb
Abstract: The aim of this study was to determine differences in the underlying factors of the bicycle traffic in Zagreb, according to the place of residence. The study included over 3,000 participants frequently included in urban bicycle traffic, using the conveniently assembled questionnaire. The results showed that among all of the factors that have an influence on cycle traffic, the existence of road cycling conditions particularly affects on the frequency of cycling. Among the barriers that have as influence on the frequency of bicycle traffic, the relief of each part of the city and the distance to the destination stand out as the most important. The best road conditions lay down in the center of Zagreb, where the cycle is used more often and for different purposes, while in rural areas, the cycle is more often used for the purpose of sport and recreation. An important factor for less frequent and less secure cycle criving in the northern part of the city can be hilly terrain (relief), while the distance from the city center, have an influence on selecting the type of means of transport. To improve the conditions of bicycle

traffic, the most interested are those who live in the center and eastern part of the city. Results provide guidance for local authorities, but also for the cyclists, to improve the conditions for safer and more often bicycle circulation in the City of Zagreb and its surroundings.

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References: 7 *Tables:* 0 *Figures:* 3
Category: Preliminary Communication
Title: COMMUNICATION SKILLS OF PRIMARY SCHOOL PUPILS IN THE SCOPE OF GENERAL TECHNICAL AND INFORMATION TECHNOLOGY CONCEPTS
Author(s): Waldemar Lib
Affiliation: Faculty of Pedagogy, University of Rzeszów, Rzeszów, Poland
Key words: communication skills, cultural transformations, elementary school students
Abstract: Problem of communication skills is extremely important in the context of current social and cultural transformations. The very definition of communicative competence is difficult and ambiguous. Most often, however, it is identified with the skills to adapt verbal and non-verbal language to the ability of the recipient. The article focuses on communication competence of elementary school students skills related to the use of verbal discourse using general, technical and information technology concepts.

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Language –of text: Croat. *– of Summary:* Croat.,Engl.
References: 10 *Tables:* 0 *Figures:* 0
Category: Authors Review
Title: MORALITY RENEWAL AS CORRECTIVE COMPONENT OF SOCIETY
Author(s): Zdravko Šorđan
Affiliation: Theology Institute, Beograd, Srbija
Key words: morality, ethics, freedom, Christianity, brotherhood, spiritual strength
Abstract: It is not always easy or simple to define man's multi-layered nature. It is connected with true changes in the human spirit, since a real and genuine turn is, indeed, internal by nature, and implies a spiritual transformation, a mental reconstruction, where the morality becomes a corrective component of an individual and society as a whole, with a view to present the spiritual side, not the sensual side. To a certain extent, it neglects the external side of the natural greatness, and is directed toward the spiritual sense. Spirituality is not an action working only from the outside, it is a force that reveals the divine in the man, because it is not only about that the necessity

to modify some structures of society, but to modify individual views of the world and outlook upon life. In order to be in position to recommend a new behavioural pattern, it is necessary to bring order into our own lives. Not everything that is feasible scientifically is, at the same time, justifiable morally – an almost unbridgeable gap has opened up between technological advancement and humaneness. The intention of morality lies in the tendency to emphasize those spiritual values; in the best possible scenario, it expresses a higher interest and sensitivity for flickers of the human soul, and thus boils down to the desire to present spirituality, and not sensuality. In the hierarchy of human needs, biological needs cannot rank higher than those spiritual ones that belong to the generic human essence, since they add to its development. If we rely only on the sensual side, we will hear dissonant sobbing, as an attempt to compensate for lost moral values. Without morality, the world is superficial, and the man is not capable of spiritual ascent; without morality, everything is devoid of sense – everything is absurd.

Higher goals of life are not and cannot be only economic and social, but spiritual as well. The greatness of a nation and individuals is not measured only against material criteria and a developed mind, yet a withered soul, but also against moral values.

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References: 7 *Tables:* 0 *Figures:* 9
Category: Authors Review
Title: IMPACT MULTIMEDIA THROUGH
VIRTUAL REALITY TECHNOLOGY ON COMMUNICATIONS
Author(s): Jacinta Grbavac, Vitomir Grbavac
Affiliation: Croatian Communication Association, Zagreb, Croatia
Key words: multimedia, virtual reality technology,
videoconferencing technology, videophones technology,
telerobotics technology
Abstract: This paper describes the impact of multimedia mediated virtual reality technology to communication. Technology of virtual reality are a set of technologies that enables conversations between people who are physically dislocated. The goal of this technology is to enable conversation between people who are located in different geographic areas of the world and are related to business, family or friendly relations. In fact the term "technology of virtual reality" in this paper meant as a set of technologies for videoconferencing technology, videophones and telerobotics, which perform communication via a virtual incarnation or holograms. Technology of virtual reality provide an inexpensive and fast way to communicate regardless of geographical distance. With the point of communication view only teleconference made great progress in terms of maintaining the quality and continuous communication that is easy to set up, but is almost completely eliminated access "face to face", which can be considered one of the "deficiencies" in their application.

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References: 17 *Tables:* 0 *Figures:* 0
Category: Authors Review
Title: VULNERABILITIES OF NEW TECHNOLOGIES
AND THE PROTECTION OF CNI
Author(s): Krunoslav Antoliš¹, Petar Mišević², Ana Miličević
Affiliation: Ministry of the Interior of the Republic of Croatia,
Police Academy, Police College, Zagreb, Croatia¹; Zagreb School
of Economics and Management², Zagreb, Croatia
Key words: Information and communication technology,
vulnerability, safety, security, critical infrastructure
Abstract: New information technologies are unavoidable factor in modern world as they are changing it both in technological and in communication aspect. Unfortunately, despite the opening of new possibilities, both aspects of changes have brought about vulnerabilities which cannot be ignored. These vulnerabilities directly affect security state in the systems where ICT is becoming dominant information and communication platform. Therefore, critical infrastructure security as the key element of national security today is to a great extent determined by ICT security as its component. Thus, ICT vulnerabilities are directly spread to critical infrastructure in which they are built and whose abuse is only a matter of time. It is not only terrorists who should be regarded as a threat when thinking about critical infrastructure security, but also organized and commercial crime, competitive companies, various hackers, even all those who due to different social and economic reason live on the margins of modern society. Of course, nobody among the mentioned is immune to committing a terrorist act so as preventive measure all of them should be spotted and prevented in accordance with security estimates.

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References: 4 *Tables:* 0 *Figures:* 1
Category: Authors Review
Title: AXIOLOGICAL CATEGORIES FOR DESIGNING THE
SYSTEM OF TECHNICAL EDUCATION
Author(s): Wojciech Walat
Affiliation: Pedagogical Faculty, University of Rzeszow, Rzeszow,
Poland
Key words: technology education, axiological categories:
subjectivity, responsibility, self-realisation, tolerance, moral
imagination, creativity
Abstract: The article presents a systemic approach to axiological categories in the model creating a coherent and co-existing hierarchy. The proposed solutions constitute a clear indication for seeking criteria of human life quality beyond the categories

which are exclusively economic defining only the state of possessing ("having"), pushing the personal – subjective and autonomous development of a human being to the second place – i.e. "being". The mentioned categories of notions – constituting the basis for developing humanity – are internal dimensions of human ethics. The determinants of human life quality may encompass the axiological categories appearing in psychology, philosophy, sociology as well as in pedagogy, i.a. subjectivity, responsibility, self-realisation, tolerance, moral imagination, creativity.

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Category: Authors Review
Title: HEALTH AND PHYSICAL ACTIVITY
CIVILIZATIONAL NEED OF MODERN MAN
Author(s): Allen Bartoš
Affiliation: Association for Sport and Recreation " Veteran '91 " ,
Zagreb, Croatia
Key words: physical activity, health, sport

Abstract: This paper focuses on physical activity and health as a civilization need of a modern man. Unfortunately, there are far too many negative perspectives which do not help motivate people to do physical activity. Some people think that physical activity must be connected with achieving vital results on competition. Other thinks that doing physical activity is hard and takes far too much effort and also money and time. All of that is incorrect. There are so many physical activities, so many different activities and some of them are really not hard to do

and also they are very fun. Unfortunately, people also do not understand how many benefits sport does have, for physical and mental health, but also for motivation, socialization and so on. This paper will prove all of the benefits but also potential problems from doing physical activities and hopefully motivate someone.

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Category: Professional Paper
Title: TECHNOLOGY OF OZONE APPLICATIONS IN VITAL
MEDICAL FIELDS
Author(s): Damir Buković¹, Dino Buković², Mirsad Sadiković³,
Rado Žić⁴, Boris Starčević⁵, Jasmina Čatić⁵, Damir Buković jr.
Affiliation: Polyclinic Drinković, Zagreb, Croatia¹; School of
Dental Medicine, Zagreb, Croatia²; Viridisfarm d.o.o. ³, Clinical
Medical Centre Dubrava, Zagreb, Croatia⁴, Clinical Medical
Centre Dubrava, Zagreb, Croatia⁵
Key words: Ozone, medicine, gynecology, dentistry, oxygenation,
injuries, pain

Abstract: A large number of disease is primarily due to the lack of oxygen in the tissue due to the accumulation of toxins in the body. Painless and natural treatment with ozone helps with after-operating recovery and cure numerous injuries and illnesses, even tumors, and for now the most commonly used in dentistry. Ozone has a positive effect on wound healing, stimulation of the immune system, oxygenation and blood flow to tissues and to reduce swelling and pain.